

Washington State Department of Ecology
P.O. Box 47775
Olympia, WA 98504-7775
Attn: Carol Johnston, SWRO

<http://www.ecy.wa.gov/events/hg>



Washington State
Department of Ecology



Organized by:



May 1-3, 2007
The Greater Tacoma Convention & Trade Center

6th Washington Hydrogeology Symposium

CONFERENCE ANNOUNCEMENT

Registration Deadline April 6, 2007

Registration and General Information

Registration Deadline: April 6, 2007

Symposium Fees:

	Through 06-April-07	After 06-April-07
Symposium Registration	\$200.00	\$250.00
Student Rate	\$ 75.00	\$125.00
Exhibitor Rate (incl. 1 registration)	\$350.00	\$450.00

Field Trips:

Please join us on one or more terrific field trips throughout Washington and/or boat tours of Commencement Bay and vicinity. See insert for details and website for last-minute updates.

Occupancy: Double / Single

Hydrogeology of the Walla Walla Basin (Sat-Sun, April 28 - 29)	\$170.00 / \$220.00
Hydrogeology of Mount Rainier (Sun, April 29, 8 AM - 6 PM)	\$ 65.00
Low Dissolved Oxygen Problem in Washington's Hood Canal (Mon, April 30, 8 AM - 5 PM)	\$135.00
Coastal Geology Dinner Cruise (Wed evening, May 2, 6-9 PM)	\$ 75.00
Characterizing Submarine Groundwater Discharge (Thur, May 3, 1-4 PM)	\$ 15.00

Workshops:

Career-enhancing workshops provide excellent opportunities to expand your horizons. Take full advantage of this opportunity to learn from top-notch leaders in hydrogeology. See insert for details and website for last-minute updates.

Geochemical Modeling of Hydrocarbons and Invasive Waters on Groundwater Systems (Thur, May 3, 1:30-4:30 PM)	\$ 50.00
Groundwater in Tidally Influenced Aquifers (Thur, May 3, 1:30-4:30 PM)	\$ 50.00
Ecology EIM Database (Thur, May 3, 1:30-4:30 PM)	No Charge
Subsurface Heterogeneity: Why Important, What to Do (Thur, May 3, 1:30-4:30 PM)	\$ 35.00

Meeting registration is required for participation in field trips and workshops.

HOW TO REGISTER:

Registration for the 6th Washington Hydrogeology Symposium is handled electronically through on-line registration. Click on the registration link on the Symposium website <http://www.ecy.wa.gov/events/hg> All major credit cards are accepted. Confirmation of registration will be sent via e-mail within 24 hours.

PARKING:

Parking at the Convention Center is available for \$10/day (as of this printing). Free parking is available at the Tacoma Dome Station. Ride the Tacoma Link Light Rail for free to the Convention Center. See <http://www.soundtransit.org/riding/fac/link/> for more information.

LODGING:

Guest Rooms are available adjacent to the Convention Center at the Courtyard by Marriott for the following rate, Single or Double occupancy: \$157.77 (\$139 flat rate + 13.5% tax). No charge for additional persons. Please identify yourself as a Hydrogeology Symposium attendee to qualify for this rate. To reserve a room online, go to the Courtyard by Marriott website at: <http://marriott.com/property/propertypage.SEATD>. To qualify for the Hydrogeology Symposium rate, enter one of the following codes in the Group Code field: HDSHDSA = King room HDSHDSB = Double Queen Room. A block of rooms will be held until Friday March 26, 2007. If you have questions about room availability, please contact Lisa Wolch, sales manager, Lisa.M.Wolch@marriott.com, (253) 284-3576.



Marriott Courtyard Lobby Staircase, Lounge and Rooms

MEALS:

Registration includes hors d'oeuvres on Tuesday evening (May 1) and lunches on Tuesday and Wednesday (May 1 & 2). In addition, refreshments will be provided during morning and afternoon breaks.

STUDENT SCHOLARSHIPS:

A limited number of student scholarships are available with priority given to student presenters (oral or poster). Please contact Charles San Juan at (360) 407-7191 or csan461@ecy.wa.gov for more information. Donations are being solicited for student scholarships, session breaks, special events, and field trips. Please contact Bob Miller at (503) 650-7728 or robertmiller8701@comcast.net for further information.

EXHIBITOR INFORMATION:

Exhibits will open at 7:30 AM Tuesday, May 1, 2007, and will run through Wednesday, May 2, 2007. We encourage any companies or organizations with products or services related to hydrogeology to showcase their state-of-the-art capabilities. Contact the Conference Coordinator Kelly Newell, knewell@wsu.edu prior to March 1, 2007.

CONFERENCE COORDINATORS:

Kelly Newell knewell@wsu.edu (509) 335-4247
Joy Thompson joythompson@wsu.edu (509) 335-4194

<http://www.ecy.wa.gov/events/hg>

GENERAL SYMPOSIUM SCHEDULE

7:30 AM	8:30 AM to Noon	12-1PM Break	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5-6PM Break	6:00 PM	6:30 PM	7:00 PM	7:30 PM	8:00 PM	8:30 PM	9:00 PM	room	
Saturday, April 28, 2007																				
	7 AM - F1 - Hydrogeology of the Walla Walla Basin - Day 1																			
Sunday, April 29, 2007																				
	F1 - Hydrogeology of the Walla Walla Basin - Day 2 - 7 PM																			
	F2 - Hydrogeology of Mount Rainier - 8 AM to 6 PM																			
Monday, April 30, 2007																				
	F3 - Low Dissolved Oxygen Problem in Washington's Hood Canal - 8:00 AM to 5:00 PM																			
Tuesday, May 01, 2007																				
Symposium Registration	9 AM - Symposium Day 1 - See Detailed Schedule - Lunch Included										Reception-Hearty Hors D'oeuvres									
	Wednesday, May 02, 2007																			
	8:30 AM - Symposium Day 2 - See Detailed Schedule - Lunch Included										F4-Coastal Geology Dinner Cruise									
	Thursday, May 03, 2007																			
	8:30 AM - Symposium Day 3 - See Detailed Schedule				W1-Geochem															
					W2 - Tidal GW															
W3-EIM DB																				
W4-Heterogeneity																				
Gray columns show the noon and 5 PM break hours.																				

KEYNOTE TOPICS

KEYNOTE 1:

Dr. Robert Glennon, Morris K. Udall Professor of Law and Public Policy, Rogers College of Law, University of Arizona

“Water Follies: The Impact of Groundwater Pumping on the Environment”

The excessive pumping of our aquifers has created an environmental catastrophe known to only a few scientists, a handful of water management experts, and those unfortunate enough to have suffered the direct consequences. As our groundwater use has increased, pumping has caused rivers, springs, lakes, and wetlands to dry up, ground beneath us to collapse, and fish, birds, wildlife, trees, and shrubs to die. This talk will illustrate the scope of the problem with stories from around the country. These water follies are tales of human foibles including greed, stubbornness, and, especially, the unlimited human capacity to ignore reality. Robert Glennon has more than 30 years of professional experience and specializes in constitutional law, American legal history, and water law.

KEYNOTE 2:

Dr. Paul Johnson, Executive Dean of Arizona State University’s Ira A. Fulton School of Engineering and a Professor of Civil and Environmental Engineering since 1994.

"The Subsurface Contaminant Vapor to Indoor Air Pathway - Do Conventional Risk Assessment Paradigms Make Sense?"

Federal, state, and local agencies have recently developed, or are in the process of developing, guidance for assessing potential adverse impacts associated with the vapor intrusion to indoor air pathway. They are also developing tables of compound-specific clean-up numbers for soil, groundwater, and soil vapor that are presumed to be protective of possible exposures resulting from this pathway. Most of these regulatory approaches mimic other conventional pathway-specific approaches, in the sense that decision-making is based on spatially and temporally discrete sampling and some type of data extrapolation. These approaches are also being developed and enforced at a time when our understanding of the pathway is still evolving and there are a wide range of opinions. This talk will review the current state of understanding of the pathway and discuss whether or not the use conventional characterization and risk assessment paradigms make sense for this pathway. This talk will also discuss studies needed to advance our understanding of the pathway.

KEYNOTE 3:

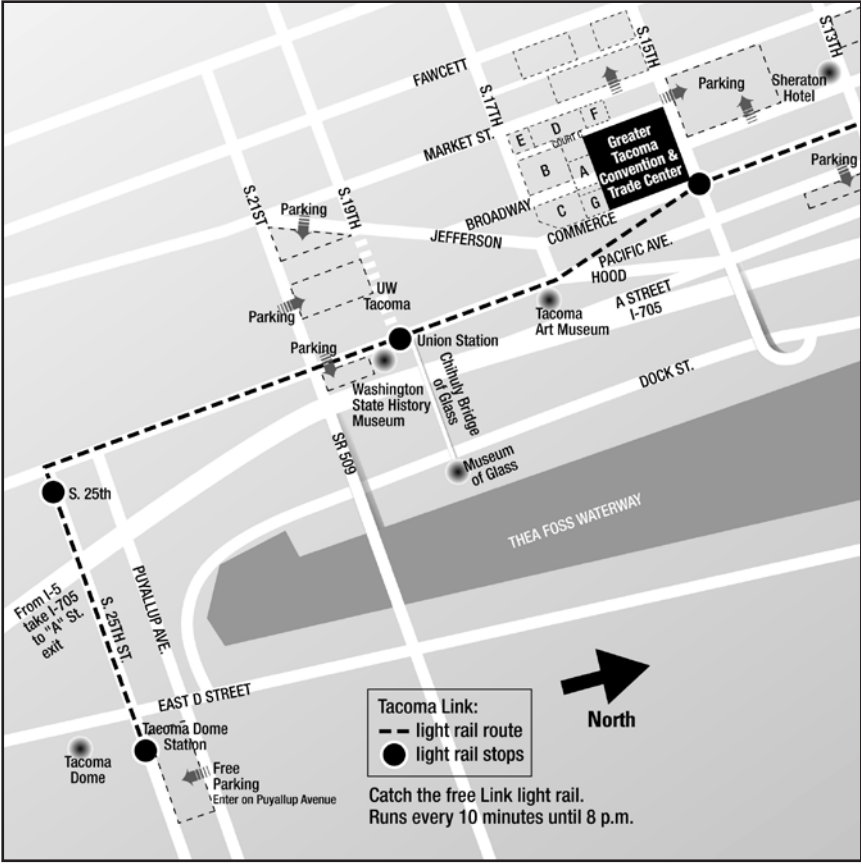
Dr. John Priscu, Department of Land Resources & Environmental Sciences, Montana State University

“Earth’s Icy Biosphere”

The Earth’s icy systems, particularly the Antarctic ice sheet and related subglacial environments, hold a large and potentially active carbon pool that has yet to be considered. The Earth’s biosphere is cold, with 14% being polar and 90% (by volume) cold ocean <5 °C. More than 70% of Earth’s freshwater occurs as ice and a large portion of the soil ecosystem (~20%) exists as permafrost. Paleoclimate records for the past 500,000 years have shown that the surface temperature on Earth has fluctuated drastically, with four major glaciations occurring during this period. New discoveries of microbial life in cold (-5 °C) and saline lakes, permanent lake ice, glacial ice and polar snow are extending the bounds of our biosphere. The recent description of potential bacterial life in Lake Vostok, and the discovery of at least 100 other Antarctic subglacial lakes extend the known boundaries for life on Earth even further. The next 5-10 years should prove to be an interesting time of discovery for Antarctic science, one that follows the Antarctic tradition of melding interdisciplinary and international science. Professor; Ph.D. 1982, University of California, Davis; M.S. 1978, University of Nevada, Las Vegas; B.S. 1975, University of Nevada, Las Vegas.

MAP AND DIRECTIONS:

The Greater Tacoma Convention & Trade Center is at 1500 Broadway, Tacoma, WA 98402. Directions are available online at http://www.tacomaconventioncenter.com/plan_directions.html or by phone at (253) 830-6601.



Photograph taken by Sue Kahle, U.S. Geological Survey. View of The Greater Tacoma Convention & Trade Center from the south east.